

ABSTRACT OF THE DISCLOSURE

An optical network unit and an optical line terminal which efficiently control the data receiving and
5 dechurning processes in a passive optical network. In a
churning parameter memory subsystem, a first memory bank
stores churning parameters that are currently used, while
a second memory bank stores updates made to the churning
parameters. Under the control of the churning parameter
10 memory subsystem, those first and second memory banks
change their roles with each other at a churning key
updating time point. A data dechurning unit receives a
data stream consisting of a plurality of frames and
dechurns the information contained in the data stream,
15 according to the stored churning parameters. When an
update is done to the parameters in a certain frame, the
data dechurning unit makes the update effective at the
next frame, thus starting data dechurning operations from
the next frame.